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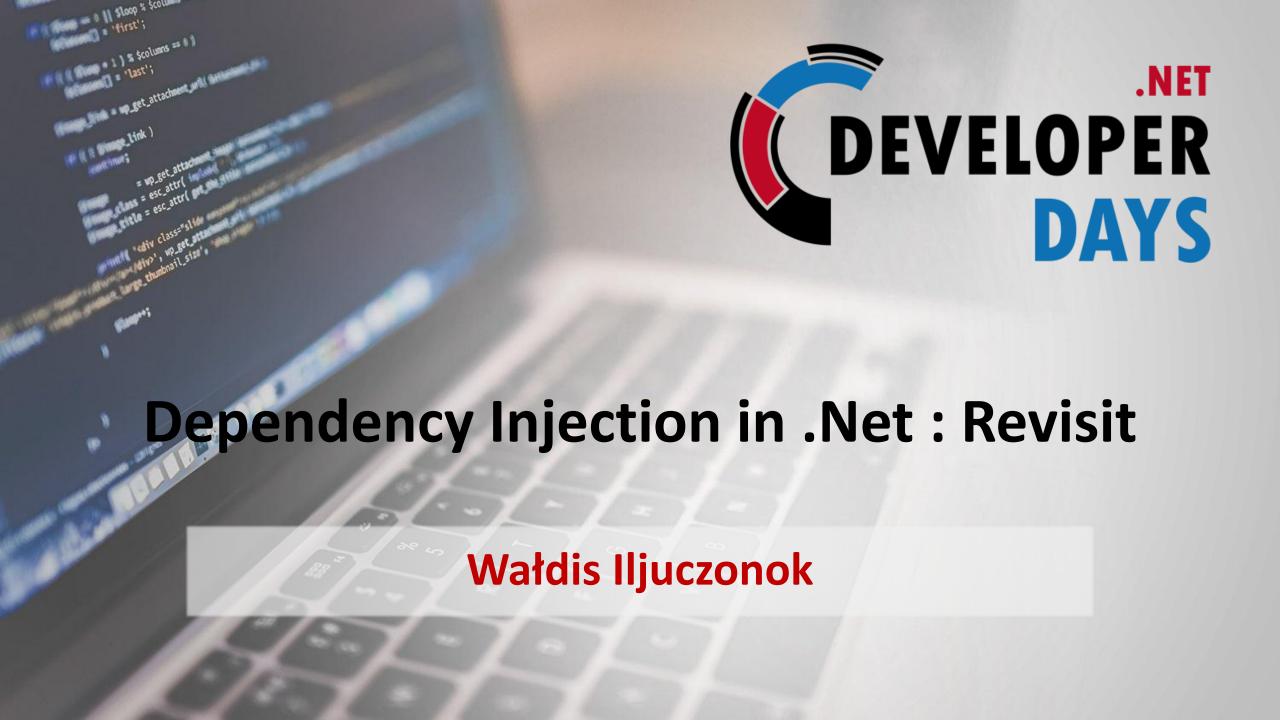
















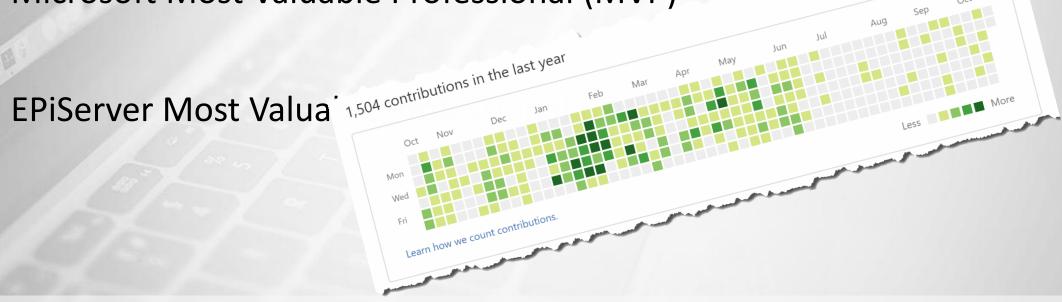
Wałdis Iljuczonok

Software Architect (@tech_fellow)



epr

Microsoft Most Valuable Professional (MVP)







Plan



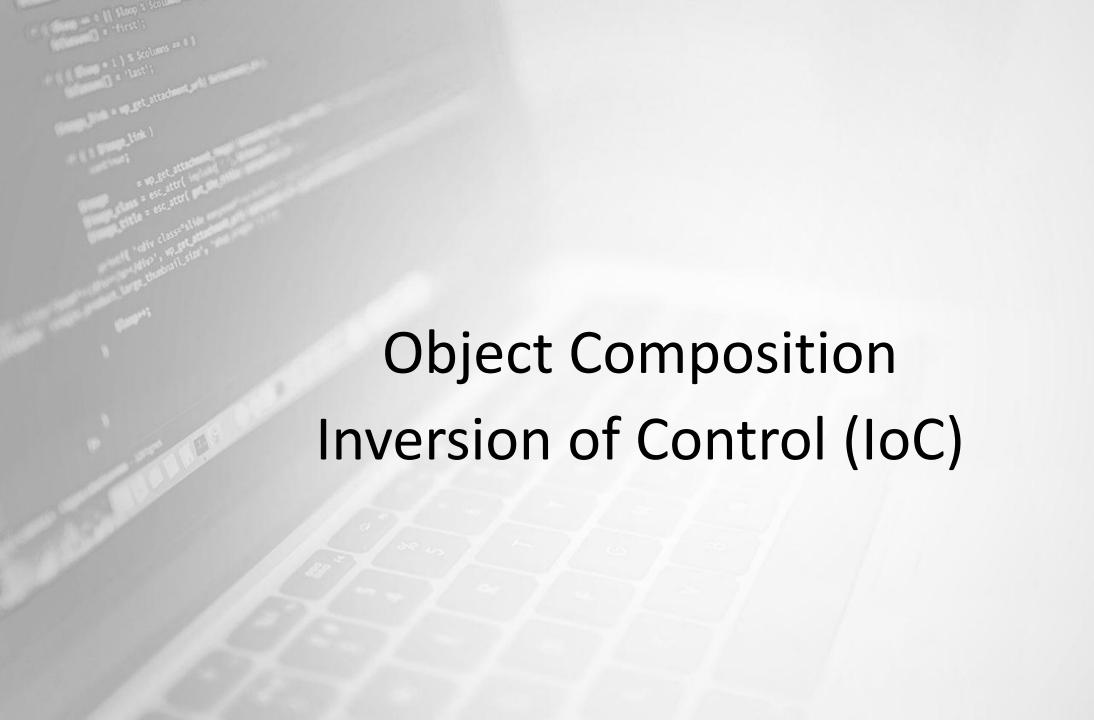
- Patterns
- Anti-Patterns
- Applying DI
- Personal Experience with DI

@DeveloperDaysPL

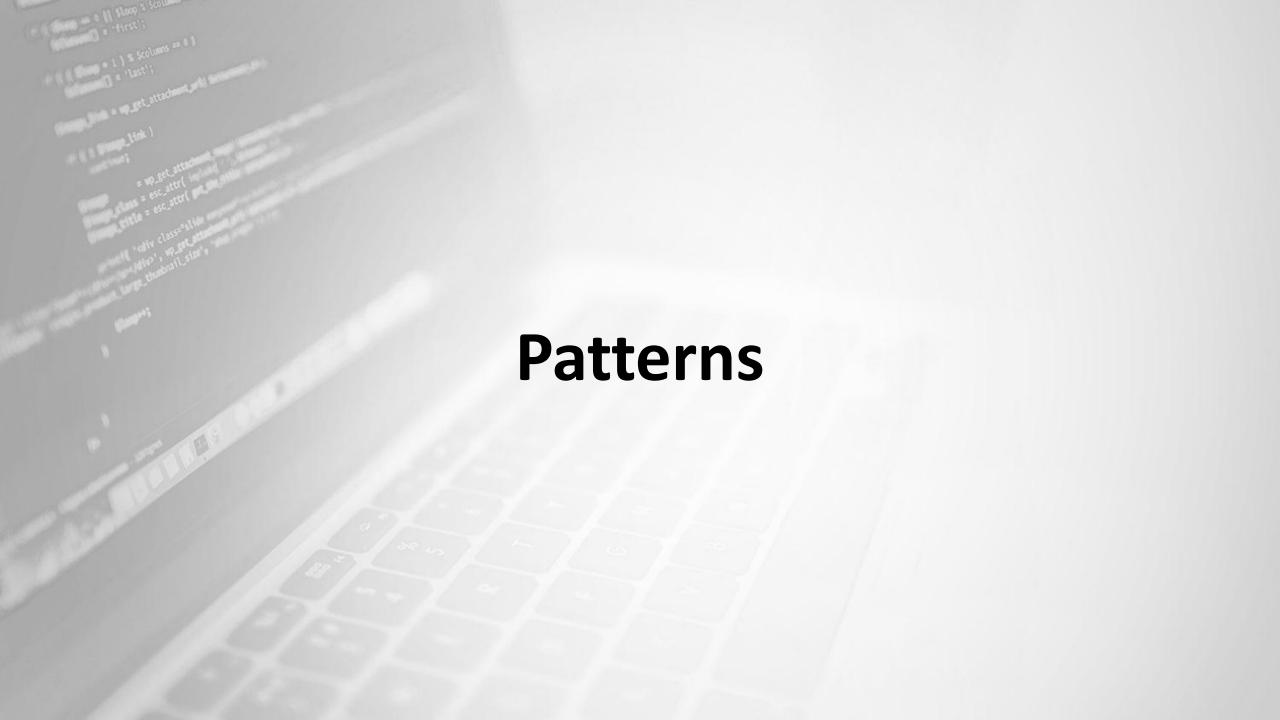




DI is a set of principles and patterns that enable loose coupling







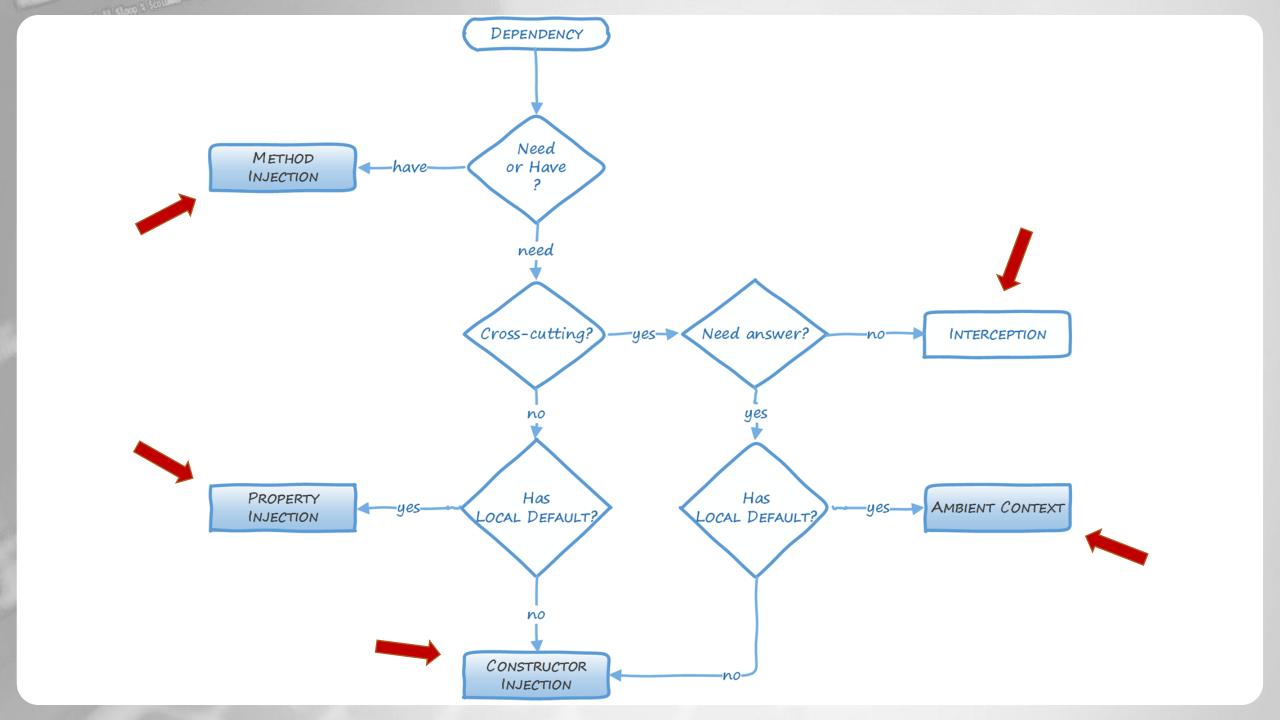








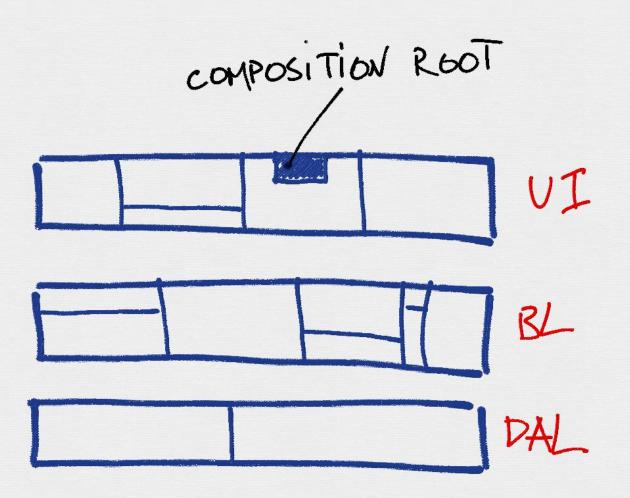
Constructor Injection **Property Injection** Method Injection **Ambient Context**



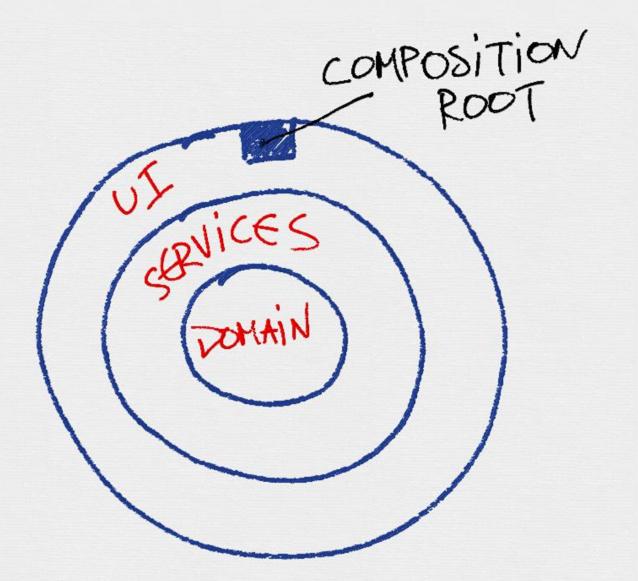




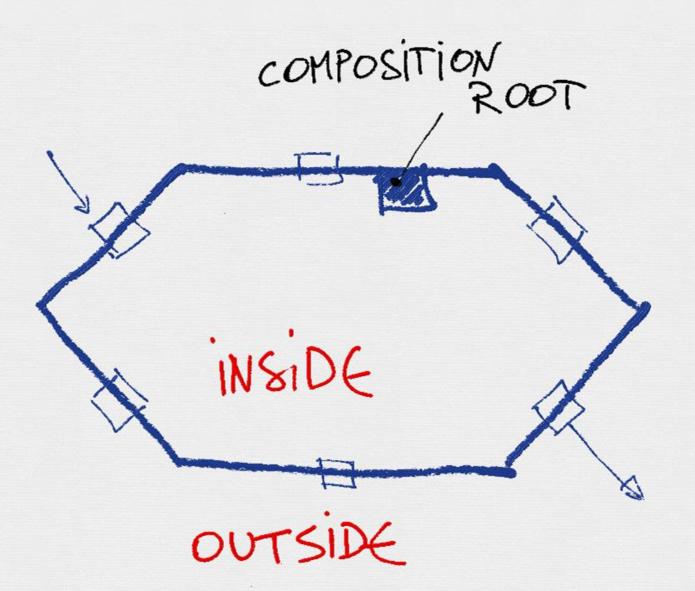




Layered



Onion



hexagonal

Main(string[] args)
Global.asax & IControllerFactory
Startup.cs & RouterMiddleware
Application.OnStartup
..rely on framework..





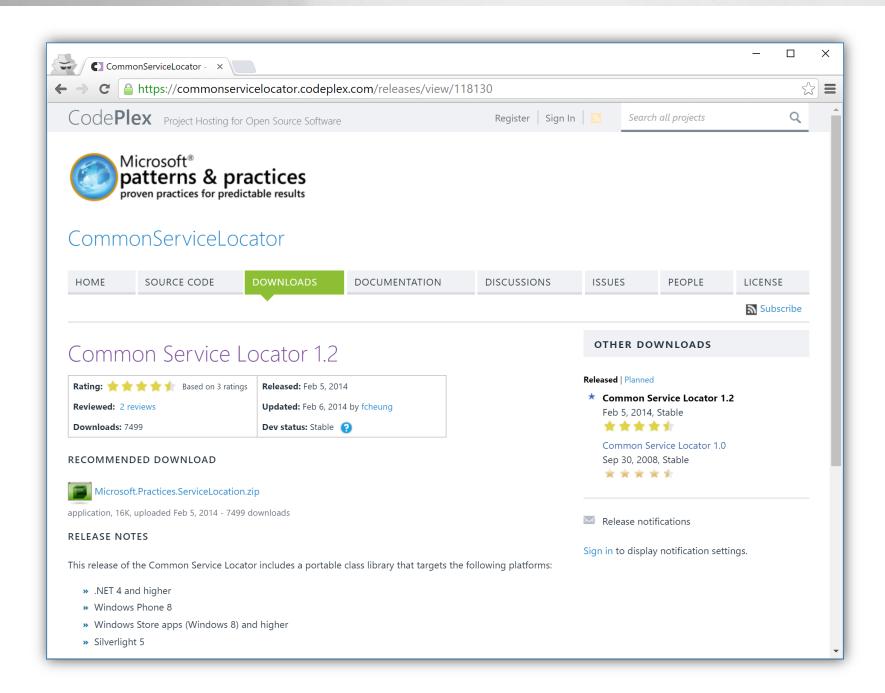




Don't ask, we will call you!

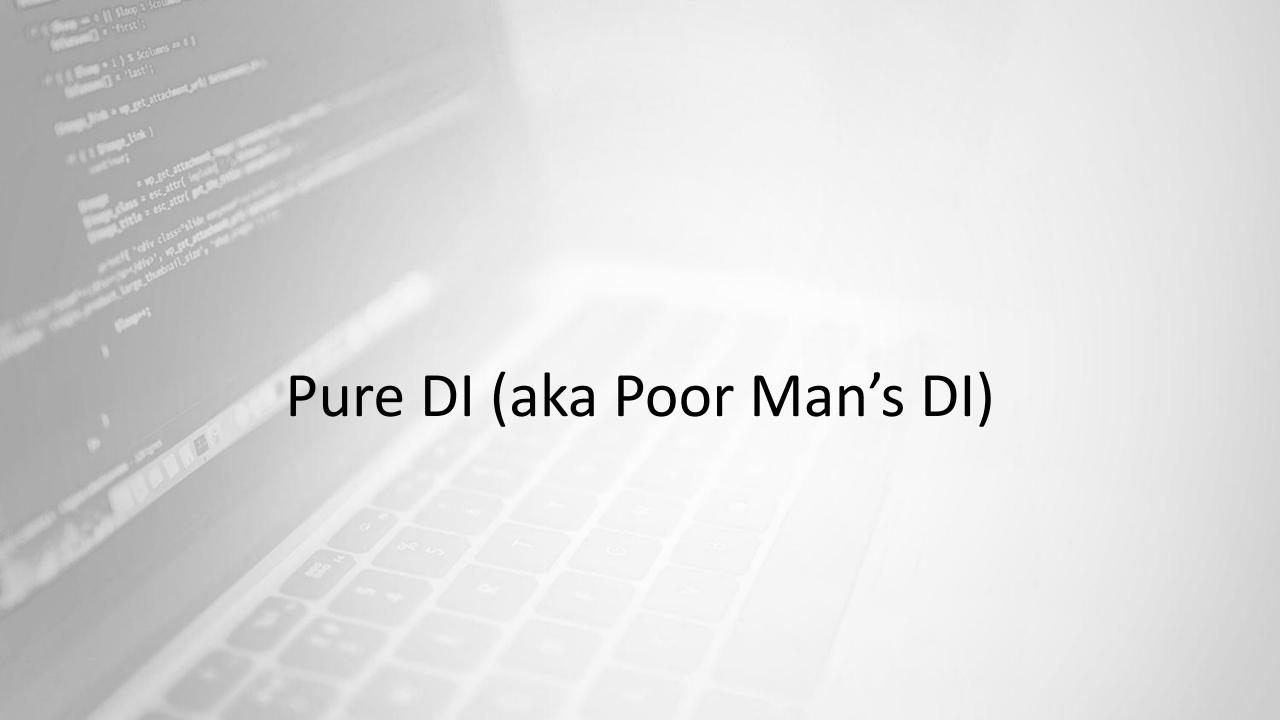
"Hollywood Principle"

@DeveloperDaysPL



Control Freak Bastard Injections Constrained Construction Service Locator







```
Autofac
            Caliburn.Micro
                 Catel
                DryIoc
              DryIocZero
                Dynamo
             fFastInjector
                 Funq
                 Grace
                Griffin
                HaveBox
              IfInjector
               LightCore
              LightInject
                 LinFu
                Maestro
                  Mef
                 Mef2
              MicroSliver
Microsoft.Extensions.DependencyInjection
                 Mugen
                 Munq
                Ninject
                Petite
             SimpleInjector
              Spring.NET
               Stashbox
             StructureMap
               StyleMVVM
                TinyIoC
                 Unity
                Windsor
```

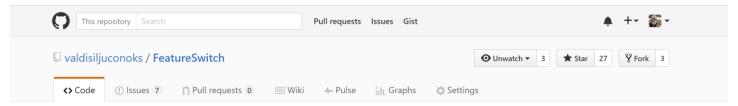




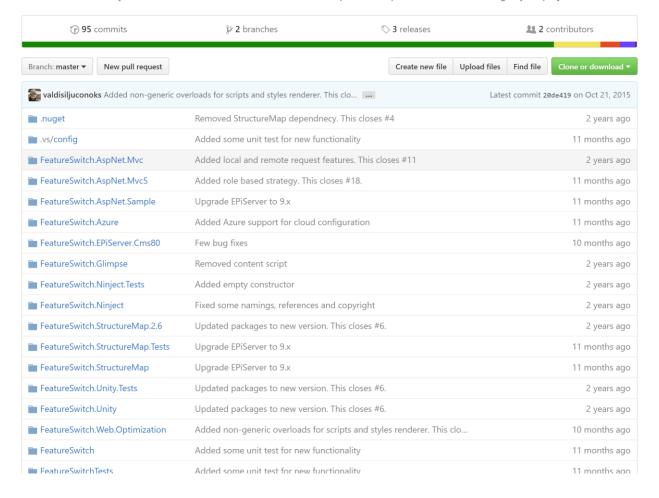




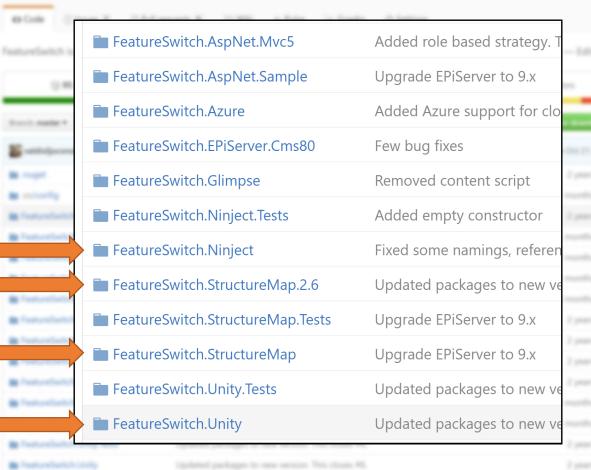




FeatureSwitch is library that should reduce amount of time and code required to implement feature switching in your projects. — Edit



- *.Ninject
- *.StructureMap
- *.*.<your-container>



ics / FeatureSwitch

- *.Ninject
- *.StructureMap
- *.Unity
- *.<your-container>









```
public interface IServiceLocator
{
    T Resolve<T>(object context);
}
```

ServiceLocator

```
public interface IAbstractFactory<T>
{
    T Resolve(object context);
}
```

AbstractFactory

```
public interface IServiceLocator
{
    T Resolve<T>(object context);
}
```

ServiceLocator

```
public interface IAbstractFactory<T>
{
    T Resolve(object context);
}
```

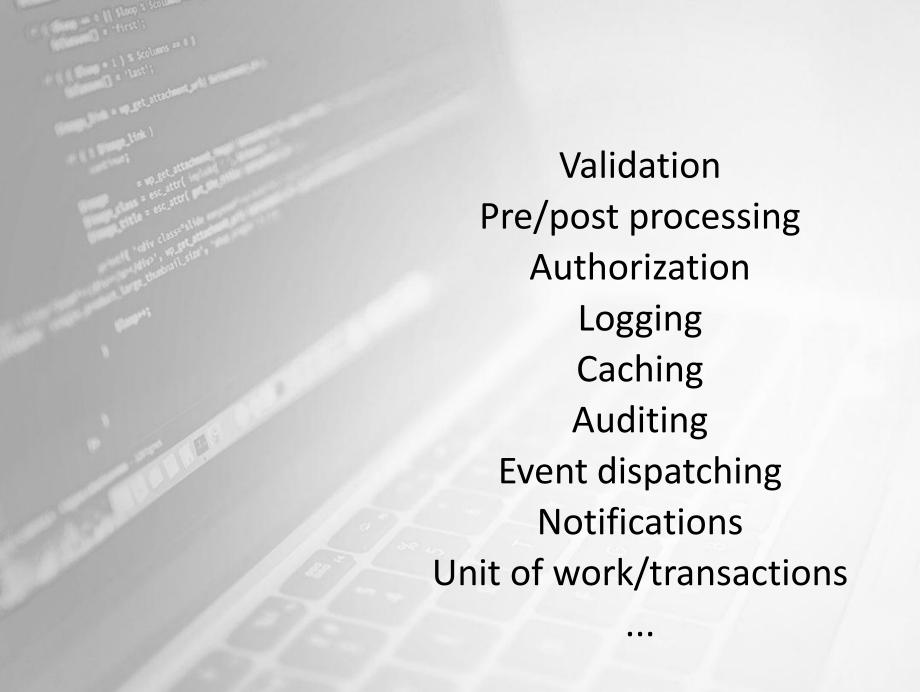
AbstractFactory













Create loose-coupling code

Demand dependencies from consumer

Leverage DI container features

Look for anti-patterns







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